

03600088 CARTERS CREEK AT BUTLER ROAD AT CARTERS CREEK, TN

LOCATION.--Lat 35°43'02", long 86°59'44", Maury County, Hydrologic Unit 06040003, on left bank at end of Butler Road bridge, 0.1 mi west of Carters Creek, 0.3 mi upstream from Terrell Branch, 3.7 mi upstream from Rutherford Creek, and at mile 3.7.

DRAINAGE AREA.--20.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1986 to current year. Occasional low-flow measurements, water year 1986.

REVISED RECORD.--WDR TN-97-1: 1992-96 (M): 1992-96(P).

GAGE.--Data collection platform, crest-stage gage and concrete weir. Datum of gage is 605.94 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good. Diurnal fluctuation caused by industrial development upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 5	1330	*2,660	*13.61	Mar 5	1915	1,560	9.88

Minimum discharge, 0.43 ft³/s, Sept. 27.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	2.9	36	46	32	122	35	12	9.5	24	1.9	0.90
2	10	2.8	30	47	36	161	30	32	8.9	14	1.2	10
3	9.2	2.7	27	41	77	89	26	26	10	10	1.1	2.2
4	8.3	2.6	27	37	58	70	23	20	6.5	13	1.0	2.4
5	7.5	13	25	51	1,410	297	20	16	4.6	11	6.8	2.4
6	7.8	4.9	23	44	458	279	18	13	3.9	7.0	1.9	1.5
7	6.6	3.8	21	38	178	129	17	11	3.4	13	1.5	1.1
8	5.7	3.3	20	35	119	91	17	9.7	3.1	7.8	1.3	0.98
9	5.2	3.0	18	35	91	73	15	8.6	4.8	5.6	1.2	0.91
10	5.3	2.9	50	30	76	59	14	7.8	6.4	5.3	1.1	0.80
11	5.2	2.8	43	28	64	50	13	8.0	2.5	4.2	3.8	0.72
12	4.8	3.4	34	26	60	43	55	6.9	12	4.1	9.2	0.67
13	4.5	5.1	31	24	51	37	97	12	25	3.9	2.5	0.70
14	8.2	3.3	41	23	46	34	84	12	8.2	4.2	1.8	0.75
15	5.6	3.2	36	21	44	31	57	170	6.2	4.1	1.5	0.63
16	4.8	13	36	19	41	31	44	72	4.9	2.7	1.3	8.2
17	5.1	9.5	37	18	41	27	36	44	8.6	2.4	1.1	24
18	4.1	48	34	108	37	27	30	32	9.9	2.2	1.1	6.2
19	3.8	51	30	69	36	24	26	26	5.9	1.9	1.0	3.1
20	3.6	33	26	52	34	25	23	20	4.2	1.6	5.2	1.9
21	3.5	25	24	43	31	37	21	16	3.4	1.6	4.8	1.4
22	3.1	19	22	37	28	27	23	13	8.1	1.6	2.3	1.1
23	3.0	15	50	32	27	24	21	12	7.2	1.3	1.8	0.85
24	2.9	70	66	30	25	22	19	9.9	5.2	1.3	2.8	0.74
25	2.7	43	48	185	23	20	16	8.4	11	3.6	5.2	0.71
26	8.6	32	38	99	51	18	15	7.5	8.1	5.0	3.2	0.75
27	6.4	33	33	72	46	17	13	6.7	5.3	2.4	2.2	0.67
28	4.4	104	29	57	37	16	12	6.0	4.8	1.4	1.4	0.74
29	3.8	62	53	49	34	55	11	6.3	3.8	1.2	2.0	0.70
30	3.3	46	81	42	---	63	11	5.8	20	1.0	1.6	0.66
31	3.2	---	58	36	---	43	---	30	---	3.1	1.2	---
TOTAL	172.2	663.2	1,127	1,474	3,291	2,041	842	680.6	225.4	165.5	76.0	78.38
MEAN	5.55	22.1	36.4	47.5	113	65.8	28.1	22.0	7.51	5.34	2.45	2.61
MAX	12	104	81	185	1,410	297	97	170	25	24	9.2	24
MIN	2.7	2.6	18	18	23	16	11	5.8	2.5	1.0	1.0	0.63
CFSM	0.28	1.10	1.81	2.37	5.65	3.28	1.40	1.09	0.37	0.27	0.12	0.13
IN.	0.32	1.23	2.09	2.73	6.09	3.78	1.56	1.26	0.42	0.31	0.14	0.15

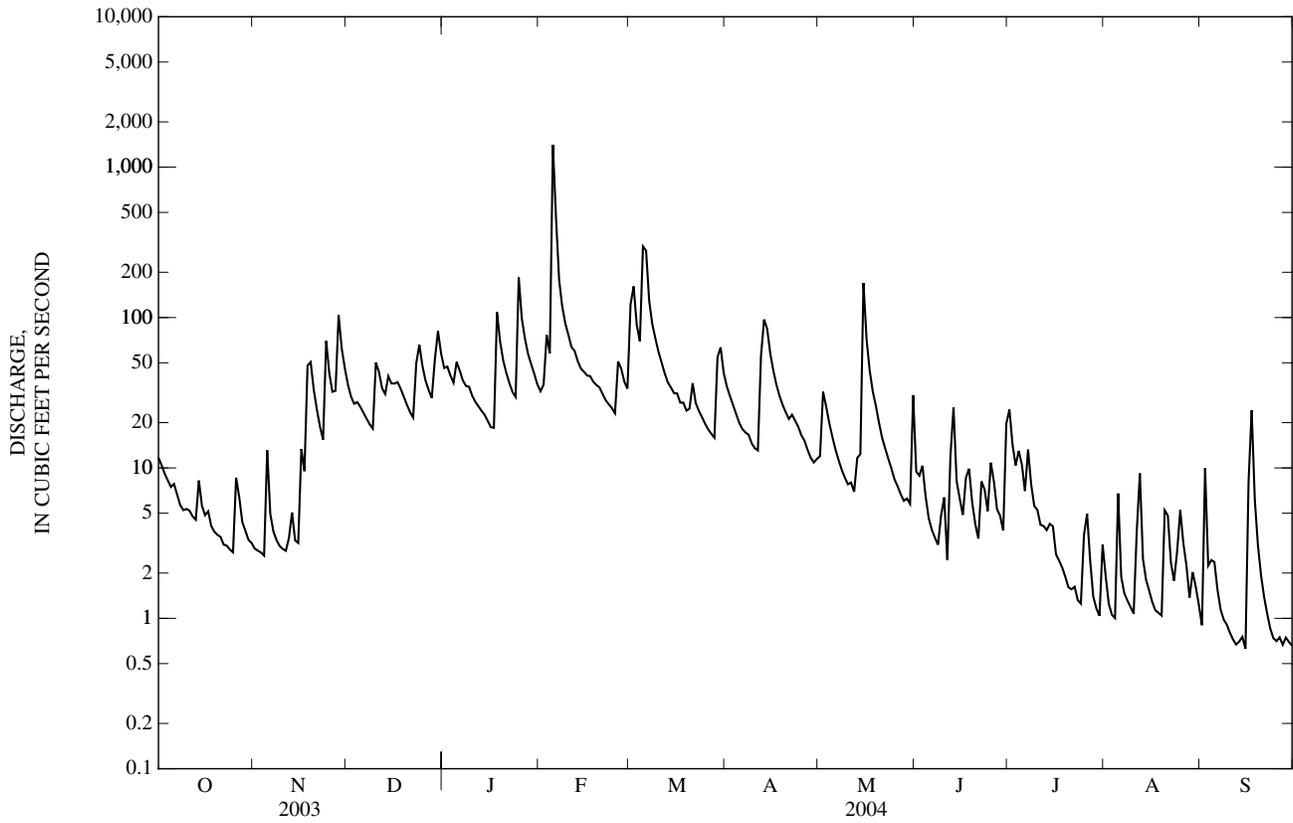
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2004, BY WATER YEAR (WY)

MEAN	9.76	28.6	54.3	58.0	79.8	66.2	35.9	32.2	17.7	9.06	5.06	7.54
MAX	44.8	64.7	126	119	185	138	98.7	97.2	54.3	45.5	23.6	37.6
(WY)	(1990)	(1989)	(1991)	(1999)	(2003)	(1994)	(1994)	(2003)	(2003)	(1989)	(2003)	(2003)
MIN	0.29	1.35	9.79	18.2	20.8	20.5	13.9	3.11	0.51	0.54	0.47	0.64
(WY)	(2001)	(1999)	(2000)	(2003)	(1995)	(1988)	(1992)	(1988)	(1988)	(1988)	(1987)	(1999)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1987 - 2004	
ANNUAL TOTAL	15,981.3		10,836.28		33.5	
ANNUAL MEAN	43.8		29.6		50.1	
HIGHEST ANNUAL MEAN					17.4	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	1,200	Feb 15	1,410	Feb 5	1,430	Feb 3, 1990
LOWEST DAILY MEAN	1.2	Sep 13	0.63	Sep 15	0.12	Aug 15, 1987
ANNUAL SEVEN-DAY MINIMUM	1.8	Sep 7	0.71	Sep 24	0.15	Jun 25, 1988
MAXIMUM PEAK FLOW			2,660	Feb 5	3,300	May 3, 1993
MAXIMUM PEAK STAGE			13.61	Feb 5	15.90	May 3, 1993
INSTANTANEOUS LOW FLOW			0.43	Sep 27	a0.11	Aug 15, 1987
ANNUAL RUNOFF (CFSM)	2.18		1.47		1.66	
ANNUAL RUNOFF (INCHES)	29.58		20.06		22.61	
10 PERCENT EXCEEDS	70		57		70	
50 PERCENT EXCEEDS	17		13		13	
90 PERCENT EXCEEDS	3.0		1.4		0.81	

a Also occurred Aug. 16, 1987, June 26, 1988.



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PERIOD OF RECORD.--October 1986 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC 0.7u MF 100 mL (31625)	Arsenic water unfltrd ug/L (01002)	Barium, water, unfltrd recoverable, ug/L (01007)	
Date		Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recoverable, ug/L (01034)	Copper, water, unfltrd recoverable, ug/L (01042)	Cyanide water unfltrd mg/L (00720)	Lead, water, unfltrd recoverable, ug/L (01051)	Mercury water, unfltrd recoverable, ug/L (71900)	Nickel, water, unfltrd recoverable, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recoverable, ug/L (01077)	Zinc, water, unfltrd recoverable, ug/L (01092)	Oil and grease, water, unfltrd mg/L (00556)	1,2-Diphenylhydrazine, water, unfltrd ug/L (82626)	2,4,6-Trichlorophenol, water, unfltrd ug/L (34621)
Date		2,4-Dichlorophenol, water, unfltrd ug/L (34601)	2,4-Dimethylphenol, water, unfltrd ug/L (34606)	2,4-Dinitrophenol, water, unfltrd ug/L (34616)	2,4-Dinitrotoluene, water, unfltrd ug/L (34611)	2,6-Dinitrotoluene, water, unfltrd ug/L (34626)	2-Chloronaphthalene, water, unfltrd ug/L (34581)	2-chlorophenol, water, unfltrd ug/L (34586)	2-Methyl-4,6-dinitrophenol, wat unfltrd ug/L (34657)	2-nitrophenol, water, unfltrd ug/L (34591)	3,3-Dichlorobenzidine, water, unfltrd ug/L (34631)	4-Bromophenyl ether, wat unfltrd ug/L (34636)	4-Chloro-3-methylphenol, wat unfltrd ug/L (34452)	4-Chlorophenyl ether, wat unfltrd ug/L (34641)
Date		4-Nitrophenol, water, unfltrd ug/L (34646)	9H-Fluorene, water, unfltrd ug/L (34381)	Acenaphthene, water, unfltrd ug/L (34205)	Acenaphthylene, water, unfltrd ug/L (34200)	Anthracene, water, unfltrd ug/L (34220)	Benzdine, water, unfltrd ug/L (39120)	Benzo[a]anthracene, water, unfltrd ug/L (34526)	Benzo[a]pyrene, water, unfltrd ug/L (34247)	Benzo[b]fluoranthene, water, unfltrd ug/L (34230)	Benzo[g,h,i]perylene, water, unfltrd ug/L (34521)	Benzo[k]fluoranthene, water, unfltrd ug/L (34242)	Benzyl n-butyl phthalate, water, unfltrd ug/L (34292)	Bis(2-chloroethoxy) methane, unfltrd ug/L (34278)
NOV 24...	1145	80020	79	748	10.5	97	7.5	280	11.0	7,600	9,700K	<2	17.8	
MAR 03...	1045	80020	89	755	12.0	111	8.0	373	11.5	720	--	<2	14.5	
MAY 26...	1115	80020	7.9	745	8.1	95	7.7	418	22.0	490	390	<2	18.9	
JUL 27...	1045	80020	2.3	751	7.9	92	7.7	377	22.0	--	750K	<2	14.9	
NOV 24...														
MAR 03...														
MAY 26...														
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E--Estimated

K--Results based on non-ideal colony count.

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Bis(2-chloro-ethyl) ether, water, unfltrd ug/L (34273)	Bis(2-chloro-isopropyl) ether, wat unfltrd ug/L (34283)	Bis(2-ethylhexyl) phthalate, wat unfltrd ug/L (39100)	Chrysene, water, unfltrd ug/L (34320)	Di-benzo-[a,h]-anthracene, wat unfltrd ug/L (34556)	Di-ethyl phthalate, water, unfltrd ug/L (34336)	Di-methyl phthalate, water, unfltrd ug/L (34341)	Di-n-butyl phthalate, water, unfltrd ug/L (39110)	Di-n-octyl phthalate, water, unfltrd ug/L (34596)	Fluoranthene, water unfltrd ug/L (34376)	Hexachlorobenzene, water unfltrd ug/L (39700)	Hexachlorocyclopentadiene, wat unfltrd ug/L (34386)	Indeno-[1,2,3-cd]-pyrene, water, unfltrd ug/L (34403)
NOV 24...	<1	<1	<2	<1	<2	<2	<1	<2	<2	<1	<1	<1	<2
MAR 03...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 26...	<1	<1	<2	<1	<2	<2	<1	<2	<2	<1	<1	<1	<2
JUL 27...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Iso-phorone water unfltrd ug/L (34408)	Nitrobenzene water unfltrd ug/L (34447)	N-Nitrosodimethylamine, wat unfltrd ug/L (34438)	N-Nitrosodipropylamine, wat unfltrd ug/L (34428)	N-Nitrosodiphenylamine, wat unfltrd ug/L (34433)	Pentachlorophenol, water, unfltrd ug/L (39032)	Phenanthrene, water, unfltrd ug/L (34461)	1,2,4-Trichlorobenzene water unfltrd ug/L (34551)	1,2-Dichlorobenzene water unfltrd ug/L (34536)	1,3-Dichlorobenzene water unfltrd ug/L (34566)	1,4-Dichlorobenzene water unfltrd ug/L (34571)	Hexachlorobutadiene, water, unfltrd ug/L (39702)	Hexachloroethane, water, unfltrd ug/L (34396)
NOV 24...	<2	<1	<2	<2	<2	<2	<1	<1	<2	<1	<1	<1	<2
MAR 03...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 26...	<2	<1	<2	<2	<2	<2	<1	<1	<2	<1	<1	<1	<2
JUL 27...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Naphthalene, water, unfltrd ug/L (34696)	Suspnd. sediment, sieve diameter <.063mm percent (70331)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
NOV 24...	<2	95	22	4.7
MAR 03...	--	90	8	1.9
MAY 26...	<2	88	5	.11
JUL 27...	--	85	6	.04